IP Link® Device Interface Communication Sheet

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type: Display
Manufacturer: Sharp
Firmware Version: N/A
Model(s): LC-26D5U, LC-32D5U, LC-37D5U

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
2	8/30/2010	1.4.0	3.0.3	Optimized driver status to work around device limitations.
1	8/16/2010	1.4.0	3.0.3	Initial version.

Driver Notes:

Under Tuner Mode, a few things need to be considered:

- Digital Air requires a two part channel number. To select the desired channel, you need to select a number with range 01-99 then press "." Then input the other number with a range 00-99 then press "Enter"
- Digital Cable1 requires a major and a minor channel selection. To achieve this, you need to select a major channel with range 1-999 and press "." then select a minor channel with range 0-999 then press "Enter".
- If using in a macro you will need to put a 1 second delay between these commands.

Control Commands & States:

Aspect Ratio	Side Bar	S. Stretch	Zoom
	Stretch	Normal	Zoom 2
	Stretch 2	Dot by Dot	
Channel TV (Step)	Up	Down	
Closed Caption	Toggle		
Input	TV	i.LINK	Input 1 Auto
	Input 1 Video	Input 1 Component	Input 2 Auto
	Input 2 Video	Input 2 Component	Input 5 Digital PC
	Input 5 Analog PC	Input 5 Digital AV	Input 5 Analog AV
Mute	On	Off	
Power Control	On	Off	
Tuner Mode	Analog Air[1]	Digital Air[2]	Digital Cable 1[3]
	Digital Cable 2[4]		
QueryEnable*	On	Off	
Volume (Discrete)	0 to 60 in steps of 1		

*When QueryEnable is on, queries are sent out normally. When QueryEnable is off no queries are sent to the display. You must send the QueryEnable on command to turn queries back on.

[1]Channel range is 1-125

[2]Channel Range is 0100-9999

[3]Major channel range is 1-999, and minor channel range is 0-999

[4]Channel range is 0-16383

Status Available:

Aspect Ratio	Side Bar	S. Stretch	Zoom
	Stretch	Normal	Zoom 2
	Stretch 2	Dot by Dot	
Connection Status	Connected	Disconnected	
Input	Input 1 Auto	Input 1 Video	Input 1 Component
	Input 2 Video	Input 2 Component	Input 2 Auto
	Input 5 Digital PC	Input 5 Analog AV	Input 5 Digital AV
	Input 5 Analog PC		
Mute	On	Off	
Power Control	On	Off	
Volume (Discrete)	0 to 60 in steps of 1		

MLC62 Supported Commands:

Aspect Ratio	Side Bar	S. Stretch	Zoom
	Stretch	Normal	Zoom 2
	Stretch 2	Dot by Dot	
Channel TV (Step)	Up	Down	
Closed Caption	Toggle		
Input	TV	i.LINK	Input 1 Auto
	Input 1 Video	Input 1 Component	Input 2 Auto
	Input 2 Video	Input 2 Component	Input 5 Digital PC
	Input 5 Analog PC	Input 5 Digital AV	Input 5 Analog AV
Mute	On	Off	
Power Control	On	Off	
Volume (Discrete)	0 to 60 in steps of 1		

Cable and Adapter Requirements:

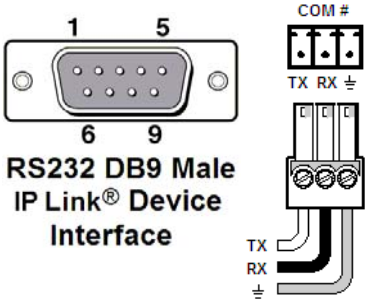
F/F RS-232 Null Modem Serial Cable

Notes for the Device:

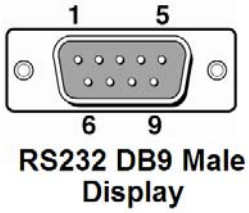
Serial communication:

Port Type:	RS-232	**Parity:**	None
Baud Rate:	9600	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:



Signal	Pin	Main Cable	Pin	Signal
RxD	2		2	RxD
TxD	3		3	TxD
GND	5		5	GND



Note: Captive screw connector may also be used as a serial connection.

General Notes: